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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently amended) A method of preparing nickel oxyhydroxide, the method comprising:

combining a nickel hydroxide and a hydroxide salt in <u>an</u> a substantially air-free inert atmosphere to form a <u>dry</u> mixture; and

exposing the mixture to ozone to form a nickel oxyhydroxide.

- 2. (Original) The method of claim 1, wherein the nickel hydroxide includes a beta-nickel hydroxide, a cobalt hydroxide-coated beta-nickel hydroxide, an alpha-nickel hydroxide, or a cobalt hydroxide-coated alpha-nickel hydroxide.
- 3. (Original) The method of claim 1, wherein the nickel oxyhydroxide includes a beta-nickel oxyhydroxide, a cobalt oxyhydroxide-coated beta-nickel oxyhydroxide, a gamma-nickel oxyhydroxide, or a cobalt oxyhydroxide-coated gamma-nickel oxyhydroxide.
- 4. (Original) The method of claim 1, wherein the inert atmosphere is substantially free of carbon dioxide.
- 5. (Original) The method of claim 1, wherein the inert atmosphere is substantially free of water.
- 6. (Original) The method of claim 1, wherein the inert atmosphere is substantially free of carbon dioxide and substantially free of water.

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7. (Original) The method of claim 1, further comprising heating the mixture prior to or during exposing the mixture to ozone.

- 8. (Original) The method of claim 1, further comprising agitating the mixture during exposing the mixture to ozone.
- 9. (Original) The method of claim 1, wherein exposing the mixture to ozone includes contacting the mixture with a gas mixture including ozone.
 - 10. (Original) The method of claim 9, wherein the gas mixture includes dioxygen.
 - 11. (Original) The method of claim 9, wherein the gas mixture includes water.
- 12. (Original) The method of claim 1, wherein the nickel hydroxide is a powder including particles having a spherical, spheroidal, or ellipsoidal shape.
- 13. (Original) The method of claim 1, wherein the nickel hydroxide is a substantially dry nickel hydroxide.
- 14. (Original) The method of claim 1, wherein the hydroxide salt includes potassium hydroxide, sodium hydroxide, lithium hydroxide, or mixtures thereof.
- 15. (Original) The method of claim 1, wherein the hydroxide salt includes silver hydroxide or gold hydroxide.
- 16. (Original) The method of claim 1, wherein the mixture is exposed to ozone for less than 24 hours.
- 17. (Original) The method of claim 16, wherein the nickel hydroxide includes a cobalt hydroxide-coated beta-nickel hydroxide or a cobalt hydroxide-coated alpha-nickel hydroxide.

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18. (Original) The method of claim 1, wherein the mixture further includes an oxidation-promoting additive.

- 19. (Original) The method of claim 18, wherein the oxidation-promoting additive includes metallic silver, silver(+1) oxide, silver(+1,+3) oxide, metallic gold, gold (+3) oxide, gold (+3) hydroxide, potassium peroxide, potassium superoxide, potassium permanganate, or silver permanganate.
- 20. (Original) The method of claim 1, wherein the nickel hydroxide includes a bulk dopant.
- 21. (Original) The method of claim 1, wherein the bulk dopant includes aluminum, manganese, cobalt, gallium, indium, or bismuth.
 - 22. (Withdrawn) A battery comprising:

a cathode comprising a carbonate-free nickel oxyhydroxide;

an anode;

a separator; and

an electrolyte.

- 23. (Withdrawn) The battery of claim 22, wherein the nickel oxyhydroxide includes a cobalt oxyhydroxide-modified nickel oxyhydroxide.
- 24. (Withdrawn) The battery of claim 22, wherein the nickel oxyhydroxide includes a cobalt oxyhydroxide-modified gamma-nickel oxyhydroxide.
 - 25. (Withdrawn) The battery of claim 22, wherein the anode comprises zinc.
- 26. (Withdrawn) The battery of claim 23, wherein the cathode further includes an oxidizing additive.

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27. (Withdrawn) The battery of claim 26, wherein the oxidizing additive includes sodium hypochlorite, sodium peroxydisulfate, potassium peroxydisulfate, potassium permanganate, barium permanganate, barium ferrate, silver permanganate, disilver oxide, or silver oxide.

- 28. (Withdrawn) The battery of claim 22, wherein the electrolyte includes potassium hydroxide, sodium hydroxide, lithium hydroxide, or mixtures thereof.
- 29. (Currently amended) A method of manufacturing a battery, the method comprising:

combining a nickel hydroxide and a hydroxide salt in <u>an</u> a substantially air-free inert atmosphere to form a <u>dry</u> mixture;

exposing the mixture to ozone to form a nickel oxyhydroxide; and assembling a cathode comprising the nickel oxyhydroxide, an anode, a separator, and an electrolyte to form the battery.

30. (Currently amended) A method of decreasing capacity loss in a nickel oxyhydroxide battery, the method comprising:

combining a nickel hydroxide and a hydroxide salt in <u>an</u> a substantially air-free inert atmosphere to form a <u>dry</u> mixture;

exposing the mixture to ozone to form a nickel oxyhydroxide;

forming a cathode including the nickel oxyhydroxide; and

assembling the cathode, an anode, a separator, and an electrolyte to form the alkaline battery,

wherein the battery has a capacity loss after storage for 4 weeks at 60°C of less than 30 percent.

31. (Original) The method of claim 30, wherein the nickel hydroxide is cobalt hydroxide modified nickel hydroxide.

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32. (Previously presented) The method of claim 29, wherein the inert atmosphere is substantially free of carbon dioxide.

- 33. (Previously presented) The method of claim 29, wherein the inert atmosphere is substantially free of water.
- 34. (Previously presented) The method of claim 29, wherein the inert atmosphere is substantially free of carbon dioxide and substantially free of water.
- 35. (Previously presented) The method of claim 29, wherein the inert atmosphere includes a gas selected from the group consisting of nitrogen, argon, helium, and oxygen.
- 36. (Previously presented) The method of claim 30, wherein the inert atmosphere is substantially free of carbon dioxide.
- 37. (Previously presented) The method of claim 30, wherein the inert atmosphere is substantially free of water.
- 38. (Previously presented) The method of claim 30, wherein the inert atmosphere is substantially free of carbon dioxide and substantially free of water.
- 39. (Previously presented) The method of claim 30, wherein the inert atmosphere includes a gas selected from the group consisting of nitrogen, argon, helium, and oxygen.
- 40. (Previously presented) The method of claim 1, wherein the inert atmosphere includes a gas selected from the group consisting of nitrogen, argon, helium, and oxygen.
 - 41-65. (Cancelled)
- 66. (New) The method of claim 1, wherein the inert atmosphere is substantially free of air.

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67. (New) The method of claim 29, wherein the inert atmosphere is substantially free of air.

- 68. (New) The method of claim 30, wherein the inert atmosphere is substantially free of air.
 - 69. (New) The method of claim 29, wherein the battery is a primary battery.
 - 70. (New) The method of claim 30, wherein the battery is a primary battery.